

Abstract of the Disclosure

Provided is a rheoforming apparatus that ensures the manufacture of products with fine, uniform spherical particles, with improvements in energy efficiency and mechanical properties of the products, cost reduction, convenience of forming, and shorter manufacturing time. The apparatus includes a first sleeve, an end of which is formed with an outlet vent for releasing slurries; a second sleeve for receiving molten metals, an end of the second sleeve being hinge-connected to the other end of the first sleeve at a predetermined angle; a stirring unit for applying an electromagnetic field to an area of the second sleeve in which the molten metals are present; a plunger, which is inserted into the other end of the second sleeve to block the other end of the second sleeve for receiving the molten metals and to pressurize the slurries; and a forming unit, which is connected to the outlet vent of the first sleeve to form products with a predetermined shape using the slurries.